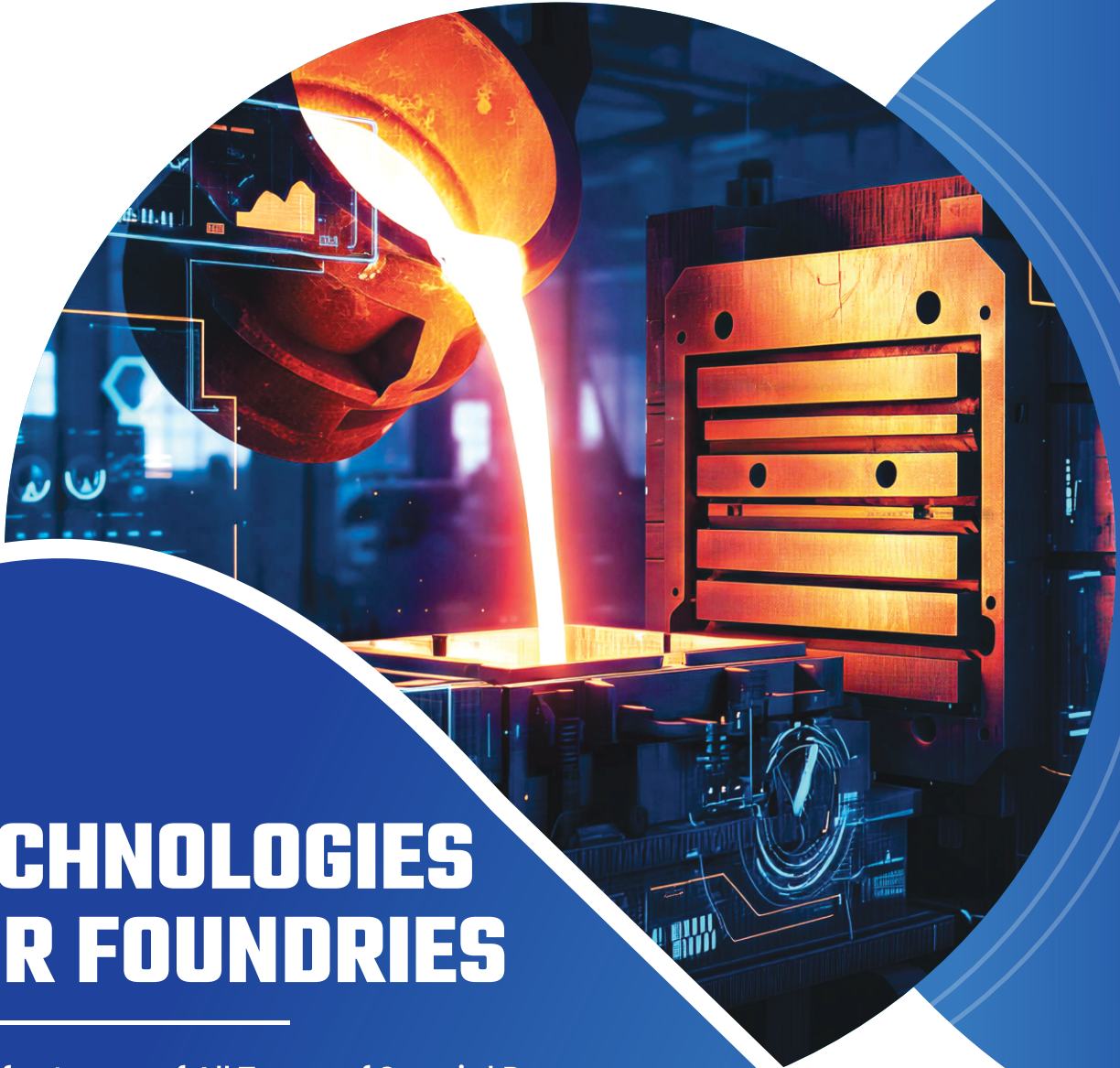




HYDROTECK
INDUSTRIAL SPM AND SOLUTIONS



TECHNOLOGIES FOR FOUNDRIES

Manufacturers of All Types of Special Purpose
Machines, Industrial Washing Machines, Hydraulic &
Pneumatic Cylinders, and Power Packs.

ABOUT OUR COMPANY



Hydroteck Engineering Company — Established in the year 1991 — stands as a pioneer in designing and manufacturing Special Purpose Machines, Industrial Washing Systems, Hydraulic & Pneumatic Cylinders, and Power Packs.

With over three decades of engineering excellence, Hydroteck has built a strong reputation for quality, reliability, and innovation, serving diverse industries with robust and efficient automation solutions.

The company specializes in developing customized, high-performance systems that streamline processes across the entire production cycle—right from die casting to final leak testing and assembly.

Our extensive product range includes LPDC and GDC Machines, Decoring and Riser Cutting Machines, Trimming Tools, Bend Removing Fixtures, Pre-Machining SPMs, Polishing Machines, Drilling SPMs, Industrial Washing Machines, Leak Testing Machines, and Hydraulic Presses for assembly operations.

Hydroteck's in-house expertise in hydraulics, pneumatics, and automation enables it to craft machines that deliver precision, consistency, and long service life.

Guided by core values of Customer Success, Craftsmanship, Trust, Innovation, Performance, and Accessibility, the company continues to build lasting partnerships and deliver engineering excellence in every product it creates.

OUR MISSION

At Hydroteck, our mission is to be a global leader in designing and manufacturing high-quality special-purpose machines, industrial washing systems, and cylinders for the automotive, agricultural, electrical, telecommunication, construction, and mining industries.

We are dedicated to delivering superior value, performance, and service, ensuring that every solution we provide enhances productivity, reliability, and operational efficiency.

We believe in fostering a workplace driven by innovation, creativity, and advanced engineering, empowering us to turn complex challenges into simple, efficient solutions.

Our experienced technical team works closely with every customer to develop tailor-made machines that meet exact requirements. From concept to commissioning, we are committed to delivering precision, customization, and excellence — making your production smoother, smarter, and more efficient.

OUR VISION

At Hydroteck, we constantly look beyond the ordinary—exploring new technologies, enhancing our equipment, and designing systems that make complex processes easier and more accessible. Our solutions are engineered to address the most demanding foundry requirements with dependable, high-performance technology.

Decades of performance have proven that Hydroteck machines continue to operate with consistency and strength. With competitive products, dependable service, and a dedicated team, we build long-term partnerships founded on trust and results.

As we move forward, we remain committed to blending technology, science, and advanced mechanics to achieve maximum efficiency. Our intelligent, integrated systems are designed to elevate your production environment and deliver sustainable performance for years to come.



The best solutions for All Industrial SPMs and Automation

At Hydroteck, we deliver industrial SPM solutions where cutting-edge technology, scientific precision, and mechanical expertise converge to maximize your operational efficiency. Our team designs automated systems tailored to your production environment, ensuring reduced cycle times and peak performance. With in-house mastery of hydraulics, pneumatics, and automation, we engineer machines that excel in precision, consistency, and durability. Driven by Customer Success, Craftsmanship, Trust, Innovation, Performance, and Accessibility, we don't just build machines—we engineer lasting partnerships that transform your manufacturing capabilities. When you choose Hydroteck, you're choosing a partner invested in your success, delivering excellence one precision-engineered solution at a time.

- Fully Tailored Automation
- Continuous Innovation DNA
- End-to-End Support
- Uncompromising Quality

35+

Years of
Experience

588+

Satisfied
Customers

1500+

Projects
Commissioned

ISO 9001:2015

Certified Company



The Technology Behind Every Perfect Casting

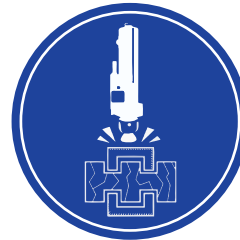
End-to-end engineering excellence — from die casting to final leak testing and assembly — delivering smart, efficient systems built precisely for your needs.



Dies & Moulds



Die Casting



Decoring



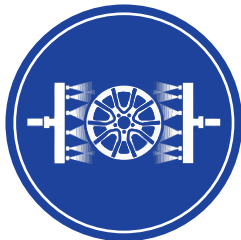
Riser Cutting



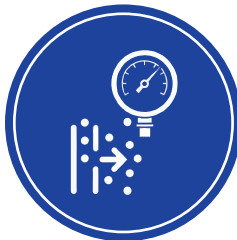
Pre-Machining



Surface Finishing



Washing



Leak Testing



Final Assembly

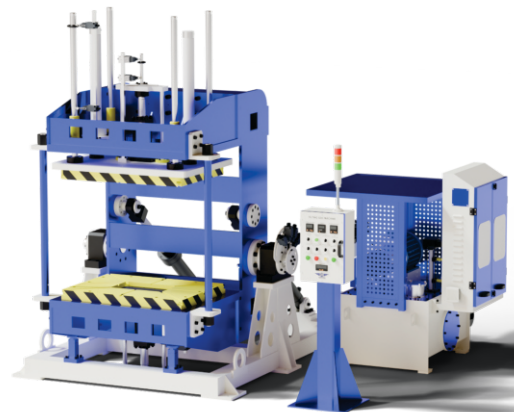
Low Pressure Die Casting Machines

Hydroteck manufactures a range of LPDC Structures engineered for precision, stability, and long-term performance. Each structure is built with a rigid, stress-relieved frame to ensure vibration-free operation and accurate mould filling across all casting cycles. Our designs utilize high-strength alloy components, optimized load distribution, and advanced thermal-resistant construction to withstand continuous high-temperature foundry conditions. With a modular architecture, our LPDC structures provide easy maintenance access, seamless automation integration, and adaptability for different wheel types and complex casting geometries. Designed with global standards in mind, the Hydroteck LPDC Structure delivers exceptional reliability, casting consistency, and production efficiency for today's demanding foundry environments.



Gravity Die Casting Machines

Hydroteck Gravity Die Casting Machines are engineered for precise, repeatable, and high-strength aluminium casting across diverse industrial applications. Built with heavy-duty structures and optimized thermal management, our GDC machines ensure superior metallurgical integrity and excellent surface finish. Hydroteck offers a complete range of GDC solutions – which includes Horizontal and Vertical Stationary Machines, Wheel GDC, Tilting Variants, Semi-Automatic Units, and Customized Multi-Cavity Setups – designed to meet different casting sizes and production volumes. With advanced hydraulics, intelligent controls, and robust safety features, our GDC machines deliver consistent performance, reduced porosity, and long operational life, making them ideal for modern foundries seeking efficiency and reliability.



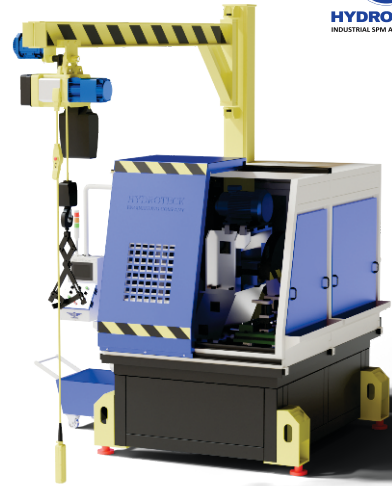
Decoring Machines

Hydroteck Decoring Machines are engineered to deliver powerful, efficient, and consistent sand removal across a wide range of casting types. Designed with robust welded frames, high-impact hammer systems, and optimized vibration dynamics, our decoring solutions ensure complete core breakdown without damaging the casting. Available in multiple configurations with diverse hammer technologies—Single-Station, Double-Station, Multi-Station, Rotary Decoring Machines, Automated Inline Decoring Systems, Vibrating Shakeout Tables, and Manual Oscillating Decoring Units equipped with Sound-Insulated Cabinets – each machine is tailored to meet specific production volumes and casting complexities. Advanced noise-damping, precise control systems, and easy-maintenance layouts enhance operational reliability and uptime. Built for demanding foundry environments, Hydroteck decoring systems provide superior cleaning performance, longer equipment life, and seamless integration into modern automated casting lines.



Riser Cutting Machines

Hydroteck Riser Cutting Machines, equipped with Circular Saw technology, are designed for fast, accurate, and distortion-free removal of risers from cast components. Built with a rigid steel structure, high-torque motors, and precision-guided cutting assemblies, these machines ensure clean cuts, reduced finishing time, and improved casting quality. Hydroteck provides a versatile range of cutting saw machines with capacities for cutters up to Ø800 mm, available in Semi-Automatic, Fully Automatic, Horizontal, Vertical, Dual-Station, and Multi-Spindle Systems – to suit different casting sizes and production requirements. Advanced clamping systems, easy fixture changeover, and safety-integrated controls enhance operator efficiency and machine reliability. Engineered for demanding foundry conditions, Hydroteck riser cutting solutions deliver high productivity, long tool life, and consistent results.



Bandsaw Type Riser Cutting Machines

Hydroteck Bandsaw type Riser Cutting Machines are engineered for precise, smooth, and efficient removal of risers from a wide range of cast components. Designed with a robust steel frame, high-performance blade drive system, and vibration-controlled cutting zone, these machines deliver clean cuts with minimal material distortion. Hydroteck offers multiple configurations, including Automated Vertical Bandsaw Machines, Horizontal Cutting Machines, Semi-Automatic Models, Fully Automatic Programmable Systems, and Heavy-Duty Dual-Station setups, tailored for different casting sizes and production volumes. Advanced clamping mechanisms, adjustable cutting speeds, and safety-integrated controls ensure operator comfort, long blade life, and reliable performance in demanding foundry environments.



Pre-Milling SPMs

Hydroteck's Pre-Milling SPM series offers high-efficiency, purpose-built machines for pre-machining cast components with precision and speed. Designed for a variety of applications, our machines range from two-station roughing units to fully automated inline systems – each capable of removing excess material quickly while ensuring consistent dimensional accuracy. Built with high-speed rotating cutters, rigid frames, and controlled feed systems, these SPMs significantly reduce cycle times. Key features include auto-chip conveyors, internal lubrication, and low-maintenance design. Trusted for high-volume pre-machining of compressor housings and complex castings, Hydroteck pre-milling SPMs maximize throughput and significantly reduce cost-per-part.



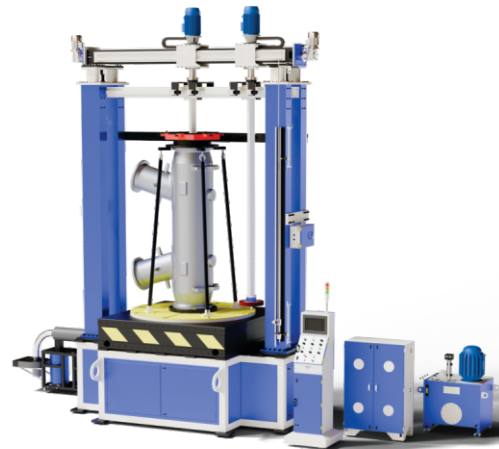
Inner Cavity Sand Blasting Machines

Hydroteck Inner-Cavity Sand Blasting Machines are engineered to ensure thorough, 100% sand-free cleaning of even the most complex internal passages in cast components. Our portfolio includes multiple configurations: Semi-Automatic Sand Blasting Machines and Multi-Nozzle Automated Cells. Each machine features precision-guided nozzles, high-efficiency sand flow, and intelligent automation to target hard-to-reach cavities while minimizing cycle time. Built with robust designs and advanced safety systems, these machines deliver consistent, repeatable blasting performance. Trusted for high-volume foundry lines, Hydroteck systems maximize cleanliness, production uptime, and long-term reliability for demanding industrial applications.



Internal Polishing Machines

Hydroteck's Internal Polishing Machine delivers uniform, high-quality internal surface finishing for aluminium GIS castings. Engineered with advanced automation, intelligent controls, and robust mechanical design, it ensures consistent quality, superior performance, and reduced cycle times. The system enhances the process, achieving good Ra value results with exceptional process reliability. Hydroteck remains committed to progressive equipment development, emphasizing critical functional elements to design more ergonomic, operator-friendly, and maintenance-efficient systems. With the Internal Polishing Machine, you can rely on our dedication to engineering innovation and operational excellence, advancing your manufacturing capabilities to the next level.



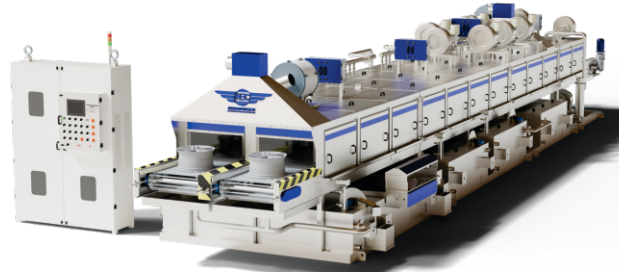
Drilling SPMs

Hydroteck's Drilling SPMs are engineered for high-precision, high-productivity machining across a wide range of cast components. Built with robust spindle assemblies, special drilling geometries, and intelligent control systems, they ensure dimensional accuracy, stable performance, and long service life. Available in multiple configurations – Automated Robotic Loading Drilling Cells, Vertical Drilling SPMs, Horizontal Drilling SPMs, Multi-Spindle Drilling Machines, and Multi-Station Drilling Machines – each model integrates seamlessly into continuous 24/7 production lines. Designed for maximum efficiency and reduced operational cost, these fully automated machines deliver consistent results, faster cycle times, and reliable throughput. Hydroteck's advanced drilling solutions keep production flowing with superior precision and durability.



Industrial Washing Machines

Hydroteck Industrial Washing Machines are purpose-built to deliver exceptional cleaning efficiency, high-volume productivity, and long-term reliability across the most demanding foundry and manufacturing operations. Our comprehensive range includes — Multi-Stage Tunnel Washers, Conveyor-Type Washing Machines, Hanger-Type Washing Machines, High Pressure Jet Washing Machines, Ultrasonic Washing Machines, Compact Tunnel-Type Washers, Rotary-Type Washing Machines, Special Purpose Washers, fully Robotic Automated Washing Systems, and Manual High-Pressure Washing Stations for Large & Heavy Castings. Each model features advanced fluid circulation, controlled pressure delivery, and efficient filtration for consistent, contamination-free results. Designed for 24/7 operation, Hydroteck washing systems integrate seamlessly into automated production lines, ensuring reduced manual handling, faster cycle times, lower utility consumption, and exceptional cleaning quality across all component types.



Leak Testing Machines

Hydroteck Leak Testing Machines are engineered to ensure precise, repeatable, and high-speed leakage detection for aluminium castings and critical components. Built for accuracy and long-term durability, our systems support a wide range of applications across automotive, foundry, and engineering industries. We offer multiple configurations, including Dry Leak Testing Machines, Wet Leak Testing Machines, Dry & Wet Combined Leak Testing Machines, Water Dip Leak Testing Machines, Automated Leak Testing Lines, Multi-Station Leak Testing Machines, Custom Leak Testing Machines, and Manual Leak Testing Machines. Each system offers exceptional detection accuracy, seamless intelligent operation, and precision-engineered industrial-grade construction, guaranteeing unmatched quality assurance, maximum uptime, and absolute reliability in every component you test.



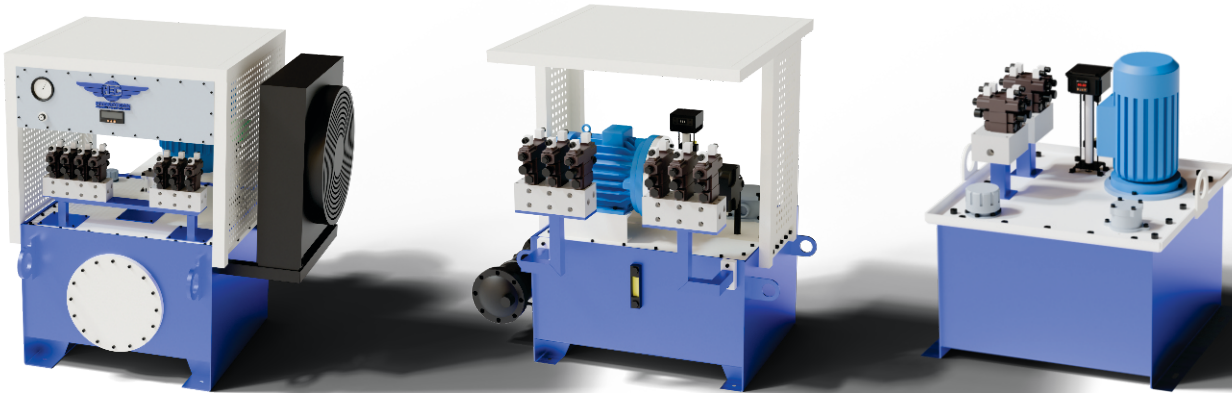
Hydraulic Press Machines

Hydroteck Hydraulic Presses are engineered to deliver powerful, consistent, and controlled force for critical foundry applications. Built with rugged frames, precision-guided rams, and advanced hydraulic systems. Our portfolio includes multiple configurations such as C-Frame Presses, H-Frame Presses, Four-Pillar Presses, Trimming Presses, Wheel Straightening Presses, Armature Pressing Machines, Insert Fitting Presses, Bend Removing Presses, Crack & Defect Testing Presses, Alloy Wheel Bush Pressing Presses, and Assembly & Fitting Presses. Designed for long service life, minimal maintenance, and continuous 24/7 operation, Hydroteck presses empower your production line with higher output, consistent dimensional integrity, and robust performance — delivering the reliability and efficiency every modern industry demands.



Engineered for Power. Designed for Performance. Built to Last.

Hydroteck's Hydraulic Power Packs deliver consistent output, zero-downtime reliability, and are built to keep your systems running at peak efficiency. Available in multiple configurations — Standard Hydraulic Power Packs, Custom Hydraulic Power Packs, Compact Motor-Pump Units, Industrial Heavy-Duty Power Packs, Mobile/Portable Power Packs, and High-Pressure Power Packs. Engineered to meet your exact expectations for performance, quality, and cost. Each unit is built using premium components from global leaders, including Bosch-Rexroth, Yuken, Polyhydon, Danfoss, Eaton, Hydac, and Hydroline. With over three decades of engineering expertise, our power packs serve demanding applications across various industries, including Automotive, Oil & Gas, Casting & Forging, Steel, Mining, Agriculture, Defence, Foundry, SPMs, Automation, Marine, Recycling Plants, and Material Handling Equipment. Supported by robust service and continuous innovation, Hydroteck delivers power systems you can truly depend on.



Components of Hydraulic Power Pack

Electric Motor – Drives the hydraulic pump.

Hydraulic Pump (Gear / Vane / Piston) – Converts mechanical power into hydraulic flow.

Hydraulic Reservoir (Tank) – Stores and cools hydraulic oil.

Return Line Filters / Suction Filters – Maintain oil cleanliness.

Pressure Relief Valve – Protects the system from overpressure.

Directional Control Valves – Direct hydraulic flow to actuators.

Pressure Control Valves – Regulate system pressure precisely.

Flow Control Valves – Control oil flow and actuator speed.

Manifold Block / Valve Block – Compact arrangement of valves.

Heat Exchangers (Air / Water) – Maintain optimal oil temperature.

Accumulators – Store hydraulic energy and absorb pressure surges.

Pressure Gauges & Transducers – Provide pressure monitoring and feedback.

Breather Cap / Air Breather – Ensures clean air entry into the tank.

Level & Temperature Indicators – Monitor tank oil condition.

Return Line Assembly – Ensures smooth oil return to the tank.

Suction Strainers – Prevent contaminants from entering the pump.

Hoses, Pipes & Fittings – Connect the hydraulic circuits.

Electrical Control Panel – Controls and automates the power pack.

Mounting Frame / Base Plate – Structural support for components.



Motor Power
0.5 HP to 50 HP



Flow Rate
2 LPM to 600 LPM



Pressure
50 Bar to 350 Bar



Tank Capacity
20 L to 2000 L



Pump Type
Gear / Vane / Piston



Cooling
Air / Water / Natural



Filtration
3–25 Micron



Control
Relay / PLC / HMI

Three Decades of Building the Strongest Precision Cylinders.

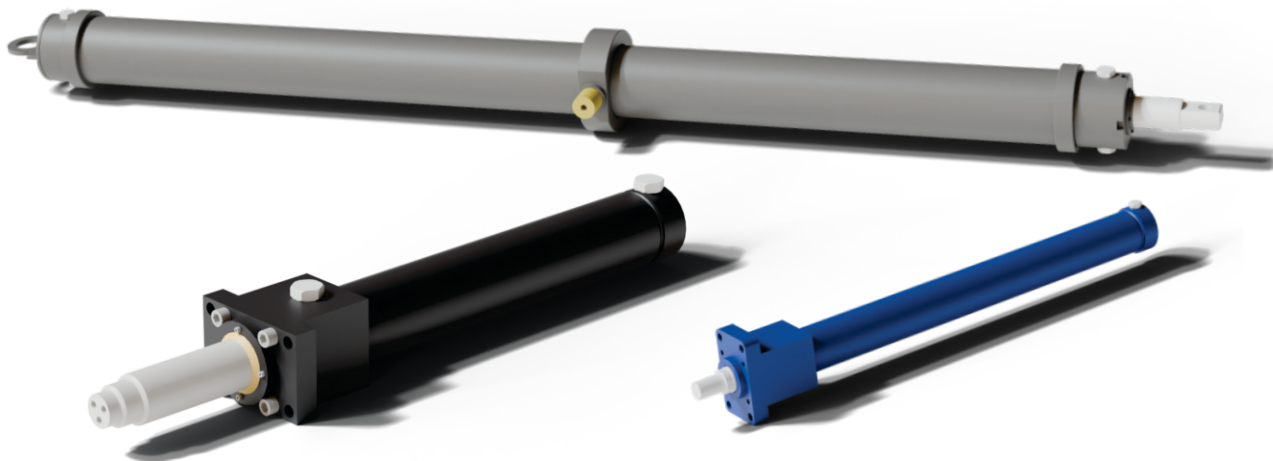
Hydroteck is a trusted leader in the design, manufacturing, and refurbishment of high-performance hydraulic cylinders for demanding industrial environments. With over three decades of engineering expertise, we deliver precision-built cylinders that meet global quality, safety, and performance standards.

We manufacture a complete range of hydraulic cylinders, including Double Acting, Single Acting, Welded Type, Heavy-Duty Industrial, Mill-Duty, Tie-Rod, and Telescopic Cylinders, all engineered to meet ISO standards. Every cylinder undergoes stringent quality control, including pressure testing, leak testing, surface finish inspection, and dimensional accuracy verification.

We collaborate closely with our customers to develop custom-built hydraulic cylinders tailored to unique stroke lengths, load conditions, mounting configurations, and working pressures. This engineering-driven approach allows us to deliver optimized solutions that enhance machine productivity, reduce downtime, and extend overall asset life.

Built for extreme industrial environments such as Foundry & Casting Equipment, Steel & Metal Processing, Automobile & Auto-Component Manufacturing, Construction & Earthmoving Machinery, Agricultural Machinery, Mining & Material Handling, Press Machines, Industrial Automation, Energy & Power Sector, Railway, and Defence Equipment. Hydroteck cylinders are designed to operate reliably under high pressure, high temperature, and continuous-duty applications. Our robust construction, engineered sealing systems, and superior surface treatments ensure maximum durability, precision, and operational efficiency.

Hydroteck Engineering Company continues to expand its product portfolio with smarter, more reliable, and cost-optimized hydraulic solutions—making hydraulics more capable, efficient, and intelligent for modern industries.



A Wide Range of Options, Sizes & Types Tailored To Your Requirements



Pressure – up to 350 Bar



Bore – up to 500 mm



Stroke – up to 5 m



Resists Temp – up to 220 °C

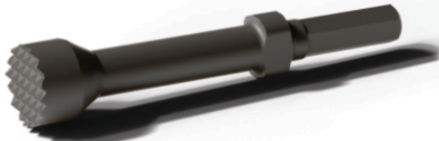
» **Piston Rod:** Hard chrome plated with a minimum of 50 microns plating thickness. Case hardened with case depth 1.5 to 2 mm.

» **Honed Tube:** Micro-honed for superior surface finish with a Ra value of less than 0.3 microns.

» **Material of Construction:** High-grade seamless honed tubes and EN8/EN9/EN24 for rods.

» **Cushioning:** Adjustable / Fixed / Optional Both-Side Cushion

» **Seals:** Viton, Teflon, 40% Bronze Teflon and 40% Graphite Teflon



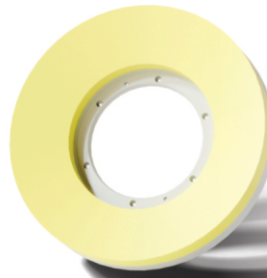
Hammering Chisels



Retainer and Spring



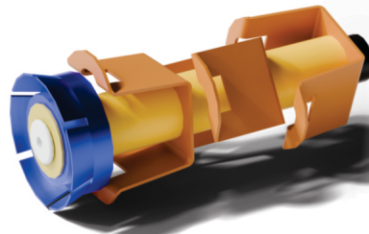
Wheel Leak Testing Pad



Helium Leak Testing Pad



Varied Profile Seals



Tube Cleaners



Wire Mesh Filters



Spray Nozzles



For Customers Around The World



Cars



Trucks



Buses



Tractors



Bikes



Marine



Electricals



Telecommunications



Medical



Construction



Mining



Home Appliances



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